

### **AMENDMENTS TO THE CLAIMS**

Claims 43-76 are pending in the instant application. Claims 52-53, 63, and 70 have been amended. The Applicant requests reconsideration of the claims in view of the following amendments reflected in the listing of claims.

Listing of claims:

1-42. (Cancelled)

43. (Previously Presented) A system for an integrated set-top box, the system comprising:

a single integrated circuit chip comprising:

a first satellite receiver demodulator integrated within said single integrated circuit chip;

at least a second satellite receiver demodulator integrated within said single integrated circuit chip;

at least one processor integrated within said single integrated circuit chip and coupled to said first satellite receiver demodulator and said second satellite receiver demodulator;

at least one video decoder integrated within said single integrated circuit chip and coupled to said at least one processor;

at least one video and graphics display engine integrated within said single integrated circuit chip and coupled to said at least one video decoder; and

at least one video encoder integrated within said single integrated circuit chip and coupled to said at least one video and graphics display engine.

44. (Previously Presented) The system according to claim 43, comprising at least one video digital-to-analog converter and RF modulator integrated within said single integrated circuit chip and coupled to said at least one video encoder.

45. (Previously Presented) The system according to claim 43, wherein said at least one video decoder is a standard definition MPEG-2 video decoder.

46. (Previously Presented) The system according to claim 43, comprising at least one audio decoder integrated within said single integrated circuit chip and coupled to said at least one processor.

47. (Previously Presented) The system according to claim 46, wherein said at least one audio decoder is an MPEG-2 audio decoder.

48. (Previously Presented) The system according to claim 46, comprising at least one audio digital-to-analog converter integrated within said single integrated circuit chip and coupled to said at least one audio decoder.

49. (Previously Presented) The system according to claim 43, comprising at least one memory controller integrated within said single integrated circuit chip and coupled to at least said at least one processor.

50. (Previously Presented) The system according to claim 49, wherein said at least one memory controller comprises a unified dual data rate DRAM memory controller.

51. (Previously Presented) The system according to claim 43, comprising a digital satellite equipment control (DiSEqC) bus integrated within said single integrated circuit chip.

52. (Currently Amended) The system according to claim 43, comprising one or more of a plurality of peripheral interfaces comprising[[,]] an infrared interface, a universal asynchronous receiver/transmitter, a serial peripheral interface, a binary synchronous communication interface, general purpose input/output pins, and/or pulse width modulation controller interface, integrated within said single integrated circuit chip.

53. (Currently Amended) The system according to claim 43, comprising at least one read-only memory integrated within said single integrated circuit chip. [[.]]

54. (Previously Presented) The system according to claim 53, wherein said at least one read-only memory comprises a CPU boot ROM and a FLASH.

55. (Previously Presented) The system according to claim 43, comprising at least one debug port integrated within said single integrated circuit chip.

56. (Previously Presented) The system according to claim 55, wherein said debug port comprises a JTAG port or any variation thereof.

57. (Previously Presented) The system according to claim 43, comprising at least one card reader or writer interface integrated within said single integrated circuit chip.

58. (Previously Presented) The system according to claim 57, wherein said card reader or writer interface is a smart card reader or writer interface.

59. (Previously Presented) The system according to claim 43, comprising at least one core voltage regulator integrated within said single integrated circuit chip.

60. (Previously Presented) The system according to claim 43, comprising at least one phase lock loop integrated within said single integrated circuit chip.

61. (Previously Presented) The system according to claim 43, comprising at least one telephony modem integrated within said single integrated circuit chip.

62. (Previously Presented) The system according to claim 43, wherein said first satellite receiver demodulator and said second satellite receiver demodulator are one or more of 8 PSK, 8 PSK-turbo and/or QPSK demodulators.

63. (Currently Amended) A method for processing information in a set-top box, the ~~system~~method comprising:

receiving a first modulated signal by a first satellite receiver within a single integrated circuit chip;

demodulating said first modulated signal by said first satellite receiver within said single integrated circuit chip to generate a first demodulated signal;

receiving a second modulated signal by a second satellite receiver within said single integrated circuit chip;

demodulating said second modulated signal by said second satellite receiver within said single integrated circuit chip to generate a second demodulated signal;

decoding within said single integrated circuit chip, a video portion of said second demodulated signal to generate a second decoded video signal;

encoding within said single integrated circuit chip, said second decoded video signal within said single integrated circuit chip to generate a second encoded digital video signal; and

converting within said single integrated circuit chip, said second encoded digital video signal to a second analog video signal.

64. (Previously Presented) The method according to claim 63, wherein said demodulating of said first modulated signal and said demodulating of said second modulated signal occurs simultaneously.

65. (Previously Presented) The method according to claim 63, comprising decoding within said single integrated circuit chip, a video portion of said first demodulated signal to generate a first decoded video signal.

66. (Previously Presented) The method according to claim 65, comprising encoding within said single integrated circuit chip, said first decoded video signal within said single integrated circuit chip to generate a first encoded digital video signal.

67. (Previously Presented) The method according to claim 66, comprising converting within said single integrated circuit chip, said first encoded digital video signal to a first analog video signal.

68. (Previously Presented) The method according to claim 63, comprising decoding within said single integrated circuit chip, an audio portion of said first demodulated signal to generate a first decoded digital audio signal.

69. (Previously Presented) The method according to claim 68, comprising converting within said single integrated circuit chip, said first decoded digital audio signal to a first analog audio signal.

70. (Currently Amended) A method for processing information in a set-top box, the ~~system~~method comprising:

receiving a first modulated signal by a first satellite receiver within a single integrated circuit chip;

demodulating said first modulated signal by said first satellite receiver within said single integrated circuit chip to generate a first demodulated signal;

receiving a second modulated signal by a second satellite receiver within said single integrated circuit chip; [[and]]

demodulating said second modulated signal by said second satellite receiver within said single integrated circuit chip to generate a second demodulated signal;

decoding within said single integrated circuit chip, a video portion of said second demodulated signal to generate a second decoded video signal;

decoding within said single integrated circuit chip, an audio portion of said second demodulated signal to generate a second decoded digital audio signal; and

converting within said single integrated circuit chip, said second decoded digital audio signal to a second analog audio signal.

71. (Previously Presented) The method according to claim 70, wherein said demodulating of said first modulated signal and said demodulating of said second modulated signal occurs simultaneously.

72. (Previously Presented) The method according to claim 70, comprising decoding within said single integrated circuit chip, a video portion of said first demodulated signal to generate a first decoded video signal.

73. (Previously Presented) The method according to claim 72, comprising encoding within said single integrated circuit chip, said first decoded video signal within said single integrated circuit chip to generate a first encoded digital video signal.

74. (Previously Presented) The method according to claim 73, comprising converting within said single integrated circuit chip, said first encoded digital video signal to a first analog video signal.



75. (Previously Presented) The method according to claim 70, comprising decoding within said single integrated circuit chip, an audio portion of said first demodulated signal to generate a first decoded digital audio signal.

76. (Previously Presented) The method according to claim 75, comprising converting within said single integrated circuit chip, said first decoded digital audio signal to a first analog audio signal.